

Quadrant: S
Section: 10
Sublot: 1

Laboratory Diary

General Description of Mix and Materials

Design Method: WMA
 Compactive Effort: 80 gyrations
 Binder Performance Grade: 76-22
 Modifier Type: Foam
 Aggregate Type: Grn/Sand/Lms
 Design Gradation Type: Fine

Avg. Lab Properties of Plant Produced Mix

| Sieve Size | Design | QC |
|----------------------------|--------|-------|
| 25 mm (1"): | 100 | 100 |
| 19 mm (3/4"): | 100 | 100 |
| 12.5 mm (1/2"): | 100 | 100 |
| 9.5 mm (3/8"): | 100 | 100 |
| 4.75 mm (#4): | 78 | 81 |
| 2.36 mm (#8): | 60 | 60 |
| 1.18 mm (#16): | 46 | 47 |
| 0.60 mm (#30): | 31 | 32 |
| 0.30 mm (#50): | 16 | 17 |
| 0.15 mm (#100): | 10 | 10 |
| 0.075 mm (#200): | 5.8 | 6.7 |
| Binder Content (Pb): | 5.8 | 6.1 |
| Eff. Binder Content (Pbe): | 5.1 | 5.5 |
| Dust-to-Binder Ratio: | 1.1 | 1.2 |
| Rice Gravity (Gmm): | 2.483 | 2.471 |
| Avg. Bulk Gravity (Gmb): | 2.384 | 2.390 |
| Avg Air Voids (Va): | 4.0 | 3.3 |
| Agg. Bulk Gravity (Gsb): | 2.667 | 2.671 |
| Avg VMA: | 15.8 | 16.0 |
| Avg. VFA: | 75 | 80 |

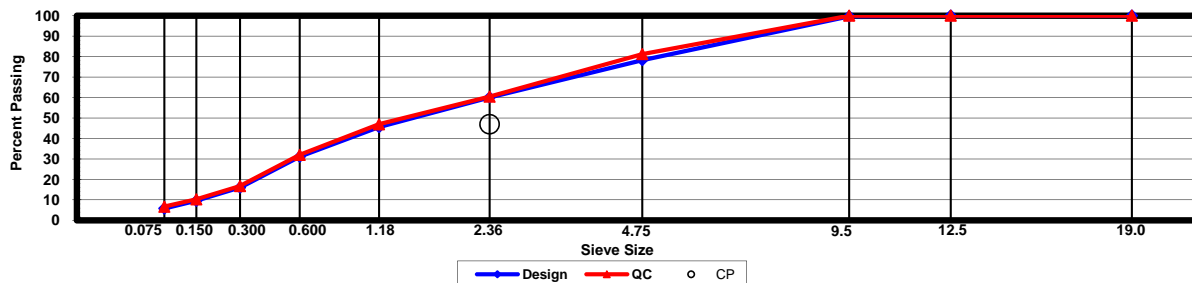
Construction Diary

Relevant Conditions for Construction

Completion Date: July 16, 2009
 24 Hour High Temperature (F): 92
 24 Hour Low Temperature (F): 74
 24 Hour Rainfall (in): 0.00
 Planned Sublot Lift Thickness (in): 1.3
 Paving Machine: Roadtec

Plant Configuration and Placement Details

| Component | % Setting |
|---|-----------|
| Asphalt Content (Plant Setting) | 6.5 |
| 89 Columbus Granite | 36.0 |
| 8910 Opelika Limestone Screenings | 23.0 |
| M10 Columbus Granite | 13.0 |
| Shorter Coarse Sand | 28.0 |
| As-Built Sublot Lift Thickness (in): | 1.3 |
| Total Thickness of All 2009 Sublots (in): | 7.0 |
| Approx. Underlying HMA Thickness (in): | 0.0 |
| Type of Tack Coat Utilized: | NTSS-1HM |
| Target Tack Application Rate (gal/sy): | 0.04 |
| Approx. Avg. Temperature at Plant (F): | 275 |
| Avg. Measured Mat Compaction: | 92.3% |



General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section # (sequential) and subplot (top=1);
- 2) The total HMA thickness of all structural study sections (N1-N11 and S8-S12) ranges from 5-3/4 to 14 inches by design;
- 3) All non-structural sections are supported by a uniform perpetual foundation in order to study surface mix performance;
- 4) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 5) All liquid asphalt purchased for use in Track reconstruction contained LOF 6500 antistripping additive at a rate of 0.5 percent

Quadrant: S
Section: 10
Sublot: 2

Laboratory Diary

General Description of Mix and Materials

Design Method: WMA
 Compactive Effort: 80 gyrations
 Binder Performance Grade: 76-22
 Modifier Type: Foam
 Aggregate Type: Lms/Sand/Grn
 Design Gradation Type: Fine

Avg. Lab Properties of Plant Produced Mix

| Sieve Size | Design | QC |
|----------------------------|--------|-------|
| 25 mm (1"): | 100 | 99 |
| 19 mm (3/4"): | 93 | 96 |
| 12.5 mm (1/2"): | 82 | 89 |
| 9.5 mm (3/8"): | 71 | 80 |
| 4.75 mm (#4): | 52 | 60 |
| 2.36 mm (#8): | 45 | 48 |
| 1.18 mm (#16): | 35 | 39 |
| 0.60 mm (#30): | 24 | 27 |
| 0.30 mm (#50): | 12 | 14 |
| 0.15 mm (#100): | 7 | 9 |
| 0.075 mm (#200): | 3.9 | 5.3 |
| Binder Content (Pb): | 4.7 | 4.7 |
| Eff. Binder Content (Pbe): | 4.1 | 4.1 |
| Dust-to-Binder Ratio: | 0.9 | 1.3 |
| Rice Gravity (Gmm): | 2.575 | 2.550 |
| Avg. Bulk Gravity (Gmb): | 2.472 | 2.433 |
| Avg Air Voids (Va): | 4.0 | 4.6 |
| Agg. Bulk Gravity (Gsb): | 2.737 | 2.706 |
| Avg VMA: | 13.9 | 14.3 |
| Avg. VFA: | 71 | 68 |

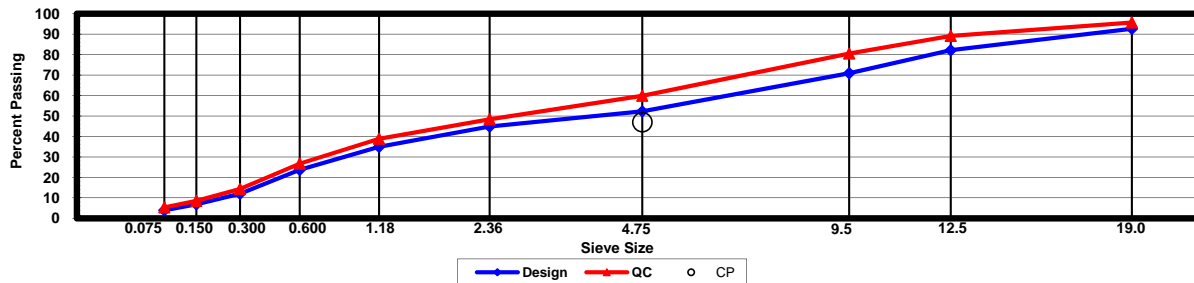
Construction Diary

Relevant Conditions for Construction

Completion Date: July 14, 2009
 24 Hour High Temperature (F): 93
 24 Hour Low Temperature (F): 72
 24 Hour Rainfall (in): 0.00
 Planned Sublot Lift Thickness (in): 2.8
 Paving Machine: Roadtec

Plant Configuration and Placement Details

| Component | % Setting |
|---|-----------|
| Asphalt Content (Plant Setting) | 4.7 |
| 78 Opelika Limestone | 30.0 |
| 57 Opelika Limestone | 18.0 |
| M10 Columbus Granite | 25.0 |
| Shorter Coarse Sand | 27.0 |
| As-Built Sublot Lift Thickness (in): | 2.7 |
| Total Thickness of All 2009 Sublots (in): | 7.0 |
| Approx. Underlying HMA Thickness (in): | 0.0 |
| Type of Tack Coat Utilized: | NTSS-1HM |
| Target Tack Application Rate (gal/sy): | 0.07 |
| Approx. Avg. Temperature at Plant (F): | 275 |
| Avg. Measured Mat Compaction: | 92.9% |



General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section # (sequential) and subplot (top=1);
- 2) The total HMA thickness of all structural study sections (N1-N11 and S8-S12) ranges from 5-3/4 to 14 inches by design;
- 3) All non-structural sections are supported by a uniform perpetual foundation in order to study surface mix performance;
- 4) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 5) All liquid asphalt purchased for use in Track reconstruction contained LOF 6500 antistripping additive at a rate of 0.5 percent

Quadrant: S
Section: 10
Sublot: 3

Laboratory Diary

General Description of Mix and Materials

Design Method: WMA
 Compactive Effort: 80 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: Foam
 Aggregate Type: Lms/Sand/Grn
 Design Gradation Type: Fine

Avg. Lab Properties of Plant Produced Mix

| Sieve Size | Design | QC |
|----------------------------|--------|-------|
| 25 mm (1"): | 100 | 99 |
| 19 mm (3/4"): | 93 | 94 |
| 12.5 mm (1/2"): | 84 | 85 |
| 9.5 mm (3/8"): | 73 | 76 |
| 4.75 mm (#4): | 55 | 57 |
| 2.36 mm (#8): | 47 | 47 |
| 1.18 mm (#16): | 36 | 38 |
| 0.60 mm (#30): | 25 | 21 |
| 0.30 mm (#50): | 14 | 12 |
| 0.15 mm (#100): | 8 | 7 |
| 0.075 mm (#200): | 4.6 | 5.1 |
| Binder Content (Pb): | 4.6 | 4.7 |
| Eff. Binder Content (Pbe): | 4.1 | 4.2 |
| Dust-to-Binder Ratio: | 1.1 | 1.2 |
| Rice Gravity (Gmm): | 2.574 | 2.553 |
| Avg. Bulk Gravity (Gmb): | 2.471 | 2.448 |
| Avg Air Voids (Va): | 4.0 | 4.1 |
| Agg. Bulk Gravity (Gsb): | 2.738 | 2.715 |
| Avg VMA: | 13.9 | 14.0 |
| Avg. VFA: | 71 | 71 |

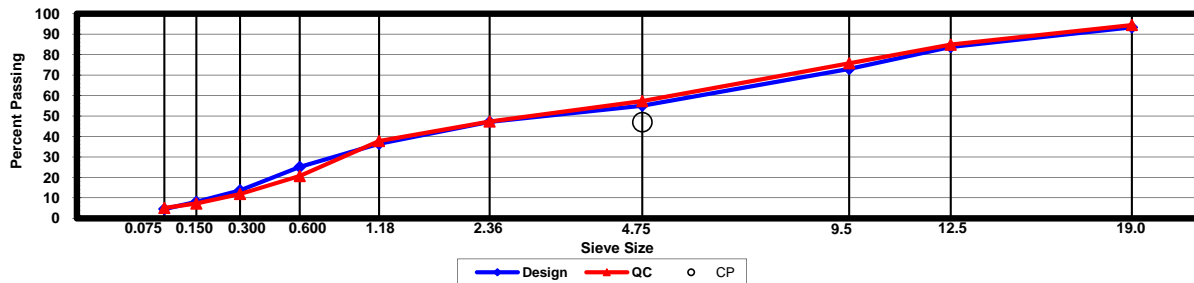
Construction Diary

Relevant Conditions for Construction

Completion Date: July 3, 2009
 24 Hour High Temperature (F): 92
 24 Hour Low Temperature (F): 69
 24 Hour Rainfall (in): 0.00
 Planned Sublot Lift Thickness (in): 3.0
 Paving Machine: Roadtec

Plant Configuration and Placement Details

| Component | % Setting |
|---|-----------|
| Asphalt Content (Plant Setting) | 4.9 |
| 78 Opelika Limestone | 30.0 |
| 57 Opelika Limestone | 18.0 |
| M10 Columbus Granite | 25.0 |
| Shorter Coarse Sand | 27.0 |
| As-Built Sublot Lift Thickness (in): | 3.0 |
| Total Thickness of All 2009 Sublots (in): | 7.0 |
| Approx. Underlying HMA Thickness (in): | 0.0 |
| Type of Tack Coat Utilized: | NA |
| Target Tack Application Rate (gal/sy): | NA |
| Approx. Avg. Temperature at Plant (F): | 275 |
| Avg. Measured Mat Compaction: | 92.3% |



General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section # (sequential) and subplot (top=1);
- 2) The total HMA thickness of all structural study sections (N1-N11 and S8-S12) ranges from 5-3/4 to 14 inches by design;
- 3) All non-structural sections are supported by a uniform perpetual foundation in order to study surface mix performance;
- 4) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 5) All liquid asphalt purchased for use in Track reconstruction contained LOF 6500 antistripping additive at a rate of 0.5 percent